

ABSTRACT

A patterned substrate for biosensing applications, wherein the pattern includes hydrophilic and hydrophobic areas, and selected ones of the areas include at least one reporter molecule, a property of which is detectable. A method of making a patterned substrate includes performing a stamping procedure to provide a pattern of hydrophilic and hydrophobic areas on a substrate of a suitable material. One step of the stamping procedure includes attaching at least one reporter molecule to at least selected ones of the areas, the fluorescence of the conjugated polyelectrolyte being detectable and which will change as a result of interaction with a biomolecule.